

WHAT IS CLAIMED IS:

1. A semiconductor integrated circuit comprising:
 - a plurality of DRAM circuits;
 - a control circuit that receives a test control signal to perform a test control in which said plurality of RAM circuits are tested while the access to said plurality of DRAM circuits is subsequently changed for each row;
 - an input selector that is controlled by said control circuit and inputs a DRAM macro signal to said plurality of DRAM circuits at the time of a test; and
 - an output selector that is controlled by said control circuit, and outputs output signals of said plurality of DRAM circuits sequentially to a macro output terminal at the time of the test.
2. A semiconductor integrated circuit according to claim 1, wherein said control circuit is directly connected to a control signal input terminal to be controlled from said control signal input terminal and thereby the control circuit is directly controlled from said control signal input terminal.
3. A semiconductor integrated circuit according to claim 1, wherein said input selector that is controlled by said control circuit to input a DRAM macro signal to one of said plurality of DRAM circuits at the time of a normal operation.
4. A semiconductor integrated circuit according

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to claim 3, wherein said control circuit is directly connected to a control signal input terminal to be controlled from said control signal input terminal and thereby the control circuit is directly controlled from
5 said control signal input terminal.

5. A semiconductor integrated circuit according to claim 1, wherein said output selector is controlled by said control circuit to output an output signal of one of said plurality of DRAM circuits to the macro
10 output terminal at the time of a normal operation.

6. A semiconductor integrated circuit according to claim 5, wherein said control circuit is directly connected to said control signal input terminal to be directly controlled from said control signal input
15 terminal and thereby is controlled directly from said control signal input terminal.

7. A semiconductor integrated circuit according to claim 1, wherein said control circuit performs a test control of said plurality of DRAM circuits in such
20 a manner that the access to first rows of said plurality of DRAM circuits is performed while successively changing the access to said plurality of DRAM circuits, and, following the access to the first rows of said plurality of DRAM circuits, the same
25 access as that to the first rows of said plurality of DRAM circuits is performed from the next rows to the last rows of said plurality of DRAM circuits while

successively changing the access to said plurality of DRAM circuits for each row.

8. A semiconductor integrated circuit according to claim 7, wherein said control circuit is connected directly to said control signal input terminal to be directly controlled from the control signal input terminal and thereby the control circuit is directly controlled from said control signal input terminal.

9. A semiconductor integrated circuit comprising:
10 a plurality of DRAM circuits;

 a plurality of control circuits each of which is provided corresponding to one of said plurality of DRAM circuits, and receives a test control signal to perform a test control of said corresponding one DRAM circuit;

15 and

 an output selector that is controlled by said control signal, and outputs output signals of said plurality of DRAM circuits sequentially to a macro output terminal at the time of a test.

20 10. A semiconductor integrated circuit according to claim 9, wherein said control circuits are directly connected to a control signal input terminal to be controlled from said control signal input terminal and thereby the control circuits are directly controlled from said control signal input terminal.

25 11. A semiconductor integrated circuit according to claim 9, further comprising an input selector for

receiving a DRAM macro signal.

12. A semiconductor integrated circuit according to claim 11, wherein said control circuits are directly connected to a control signal input terminal to be controlled from said control signal input terminal and thereby the control circuits are directly controlled from said control signal input terminal.

13. A semiconductor integrated circuit according to claim 9, wherein said output selector is controlled by said control circuit to output an output signal of one of said plurality of DRAM circuits to the macro output terminal at the time of a normal operation.

14. A semiconductor integrated circuit according to claim 13, wherein said control circuits are directly connected to a control signal input terminal to be controlled from said control signal input terminal and thereby the control circuits are directly controlled from said control signal input terminal.

15. A semiconductor integrated circuit according to claim 9, wherein said control circuits performs a test control of said plurality of DRAM circuits in such a manner that the access to first rows of said plurality of DRAM circuits is performed while successively changing the access to said plurality of DRAM circuits, and, following the access to the first rows of said plurality of DRAM circuits, the same access as that to the first rows of said plurality of

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DRAM circuits is performed from the next rows to the last rows of said plurality of DRAM circuits while successively changing the access to said plurality of DRAM circuits for each row.

5 16. A semiconductor integrated circuit according to claim 15, wherein said control circuits are directly connected to a control signal input terminal to be controlled from said control signal input terminal and thereby the control circuits are directly controlled
10 from said control signal input terminal.

17. A semiconductor circuit comprises:
 a plurality of DRAM circuits;
 a control circuit that receives a control signal and controls said plurality of DRAM circuits
15 simultaneously and independently from each other;
 an input selector for supplying a DRAM macro signal input to one of said plurality of DRAM circuits;
 an output selector that selects an output signal of one of said plurality of DRAM circuits and outputs
20 the output signal to a macro output terminal.

18. A semiconductor integrated circuit according to claim 17, wherein on receiving the control signal, said control circuit controls said plurality of DRAM circuits so that data is read from said plurality of DRAM circuits sequentially and transferred to the
25 outside of the DRAM circuits.

19. A semiconductor integrated circuit according

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to claim 18, wherein said control circuit supplies the
bank active signal BACT to one of said plurality of
DRAM circuits and then controls said output selector in
a manner such that said output selector selects the
5 output signal of said one DRAM circuit, and then, after
the data is read and outputted from columns of said one
DRAM circuit sequentially, supplies a bit line
precharge signal BPRC to said one DRAM circuit, and
said control circuit supplies the bank active
10 signal BACT to another DRAM circuit while supplying a
read signal READ to said one DRAM circuit, and controls
said output selector so as to select the output signal
of said another DRAM circuit while supplying the bit
line precharge signal BPRC to said one DRAM circuit.

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